

WATER LICENCE APPLICATION FORM

Application for: (check one)

☒ New ☐ Amendment ☐ Renewal ☐ Assignment

LICENCE NO:
(for NWB use only)

NWB2D1A0002

**1. NAME AND MAILING ADDRESS OF
APPLICANT/LICENSEE**

 Ranulf Glanville, Dia Met Minerals Ltd
 1695 Powick Rd
 Kelowna, BC V1X4L1

Phone: 250-861-8660

Fax: 250-861-3649

e-mail: ranulf@diamet.com

**2. ADDRESS OF CORPORATE
OFFICE IN CANADA (if applicable)**

as in 1.

Phone:

Fax:

e-mail:

MUNAVUT WATER BOARD

JUL 04 2000

PUBLIC REGISTRY

3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the undertaking)

 see attached map for area of work, boundaries of
 proposed drilling area and camp/airstrip location.

Latitude: 70°15' - 70°35' Longitude: 109°30' - 110°45' NTS Map No. 77F Scale 1:250000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

see attached page for english and Inuktitut description.

5. TYPE OF UNDERTAKING (A supplementary questionnaire must be submitted with the application for undertakings listed in "bold")
☐ Industrial☐ Mine Development☐ Advanced Exploration☒ Exploratory Drilling☐ Remote/Tourism Camps☐ Municipal☐ Power☒ Other (describe): regional sampling/geological mapping

6. WATER USE

- ☒ To obtain water - for camp, for drill
☐ To modify the bed or bank of a watercourse
☐ To alter the flow of, or store, water
☐ To cross a watercourse

- ☐ To divert a watercourse
☐ Flood control
☐ Other (describe): _____

7. QUANTITY OF WATER INVOLVED (litres per second, litres per day or cubic metres per year, including both quantity to be used and quantity to be returned to source)

camp 650 L/day - grey water drained to a sump, not back to primary source
 drill 70 L/minute down the hole, 40 L/minute is expected back out of the hole (the rest soaks into surroundings). Drained to settling pond before returning to source or sump

8. WASTE (for each type of waste describe: composition, quantity, methods of treatment and disposal, etc.)

- ☒ Sewage flown out *
☒ Solid Waste flown out **
☒ Hazardous flown out
☒ Bulky Items/Scrap Metal flown out
☒ Waste oil flown out in drums, quantity presently unknown
☒ Greywater - drained to sump
☒ Sludges Drill mud separated and left on site after use
☐ Other (describe): _____
 * 20-30 garbage bags expected
 ** 75-100 garbage bags expected

9. PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary) N/A

Land Use Permit

DIAND

☐ Yes ☒ No

If no, date expected

August 1, 2000

Regional Inuit Association

☐ Yes ☒ No

If no, date expected

August 1, 2000

Commissioner

☐ Yes ☒ No

If no, date expected

n/a

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)

NIRB Screening

☐ Yes ☒ No

If no, date expected

before August 1, 2000

Few environmental impacts of a lasting nature are expected. Garbage will be removed from camp site after use. An airstrip already exists at the site. Drill will be moved by helicopter. No wheeled vehicles will be used.

11. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

Midnight Sun Drilling Co. Ltd.
 #13 Macdonald Rd, Whitehorse,
 YT, Y1A 4L1.

(867) 633-3070

drilling contractor

Northern Air Support,
 Kelowna Airport
 Kelowna, BC.

(250) 765-0100

helicopter support

12. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

none, project at early stage

13. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ☐ No If no, date expected _____

Inuktitut/English Summary of Project ☒ Yes ☐ No If no, date expected _____

Application fee \$30.00 (c/o of Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

14. PROPOSED TIME SCHEDULE

☒ Annual (or) ☐ Multi Year

Start Date: August 1, 2000 Completion Date: October 31, 2000

Ranulf Glanville
Name (Print)

Project Geoscientist
Title (Print)

Ranulf Glanville
Signature

June 26/00
Date

or Nunavut Water Board use only

APPLICATION FEE Amount: \$ _____ Receipt No.: _____

WATER USE DEPOSIT Amount: \$ _____ Receipt No.: _____

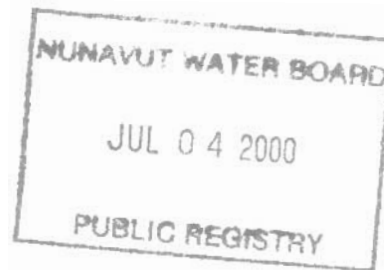
4.

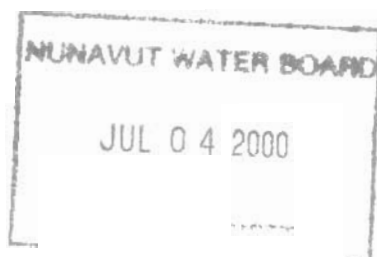
Dia Met proposes a three part program. Regional soil sampling and prospecting will be carried out within the activity location coordinates. These two activities will cause minimal environmental impact. All holes dug for the soil samples will be filled in to protect wildlife. Samples will be taken along widely spaced lines and are expected to be approximately 10kg each.

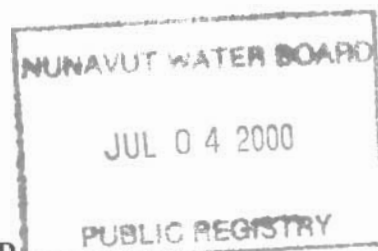
Three to six drill holes are proposed within the circle shown on the accompanying map. Exact locations are not yet known. The drill to be used is a helicopter supported 1992 heliportable RC drill from Midnight Sun Drilling. The drill weighs 24500 lbs including rods and casing.

A camp for 16 people will be set up at a lake adjacent to an existing airstrip on an esker. See the map for the exact location. The camp is expected to have seven tents. Human waste and garbage will be removed by plane. The camp site will be restored after use and the site will be kept clean during use to avoid attracting wildlife.

All phases of the program are important although drilling comprises the largest commitment of funds. Overall, this project is at an early stage and there are no long term development plans.



[illegible][illegible][illegible]



EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Dia Met Minerals Ltd. **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Ranulf Glanville Tel: 2508618660 Fax: 2508613649
2. Project Manager: Raymond Ashley Tel: 2508618660 Fax: 2508613649
3. Does the applicant hold the necessary property rights? yes, claims KAI-KA117
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. no
5. Duration of the Project
 - ☒ Annual
 - ☐ Multi Year:
 If Multi-Year indicate proposed schedule of on site activities
 Start: _____ Completion: _____

CAMP CLASSIFICATION

6. Type of Camp
 - ☐ Mobile (self-propelled)
 - ☒ Temporary
 - ☐ Seasonally Occupied: _____
 - ☐ Permanent
 - ☐ Other: _____
7. What is the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?
Design and maximum populations are 16. There are expected to be 16 people for 2 weeks and then 12 people for one week.
8. Provide history of the site if it has been used in the past.
None. No idea who originally made the airstrip or when.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

The camp will be located adjacent to a lake between 75-100m from shore. There is an estier on the other side of the camp that has an existing airstrip on it.

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs. The location was chosen because of the fact the existing airstrip was there and water could be obtained for the camp.

11. Is the camp or any aspect of the project located on:

☒ Crown Lands

Permit Number (s)/Expiry Date: KA1-KA117, April 7, 2000

☐ Commissioners Lands

Permit Number (s)/Expiry Date: _____

☐ Inuit Owned Lands

Permit Number (s)/Expiry Date: _____

12. Closest Communities (distance in km): Cambridge bay 230 km
Holman 250 km

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

only contractors in Holman and Cambridge regarding aircraft charters and equipment.

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats?

No. Only a small amount of water will be used.

PURPOSE OF THE CAMP

15. ☒ Mining
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
☐ Other _____ (Omit questions # 16 to 22)

16. ☐ Preliminary site visit
☒ Prospecting

- ☒ Geological mapping
☐ Geophysical survey
☒ Diamond drilling
☒ Reverse circulation drilling
☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
☐ Other: _____
- Most drilling will be RC drilling. core drilling may be done depending on early results.

17. Type of deposit:

- ☐ Lead Zinc
☒ Diamond
☐ Gold
☐ Uranium
☐ Other: _____

DRILLING INFORMATION

18. Drilling Activities

- ☒ Land Based drilling
☐ Drilling on ice

19. Describe what will be done with drill cuttings?

Drill cuttings will be separated from water in a holding/settling area/tank and left on site. components are biodegradable.

20. Describe what will be done with drill water?

Drill water will be drained to a sump, or depression rather than directly into a water body.

21. List the brand names and constituents of the drill additives to be used? Include MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.

when core drilling - Barroid mud

- Greenfield 2 top co. rod grease 100% non metallic } all non-toxic and biodegradable
 - sphere drilling supply hammer oil

22. Will any core testing be done on site? Describe.

No.

when RC drilling - sphere drilling supply hammer oil
 - methyl hydrate may be used at times

* most drilling will be only RC drilling.

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.

No. All spills will be cleaned up with the spill kits on site. No large fuel storage tanks will be used.

24. How many spill kits will be on site and where will they be located?

Two. One at camp, one at the drill

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site. and provide MSDS sheets.

Drill - 65 drums of diesel, 40 drums of Jet B

camp - 25 drums of diesel, 80 drums of Jet B

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources. Lake adjacent to camp.

Drill 3-6 small water bodies near drill hole locations. Exact drill sites not yet determined.

27. Estimated demand (in L/day * person):

☒ Domestic Use: 650 L/day Water Source: lake
☒ Drilling Units: 70 L/minute Water Source: lake/river
☐ Other: _____ Water Source: _____

28. Describe water intake for camp operation? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe: water will be obtained through a 3" hose equipped with a mesh screen.

29. Will drinking water quality be monitored? What parameters will be analysed and at what frequency? No but water will be filtered to remove sediment.

30. Will drinking water be treated? How? No

31. Will water be stored on site? Yes. In a 1000 L tank.

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

☒ Camp Sewage (blackwater)

Pacto toilet. removed from site. 20-30 garbage bags expected

☒ Camp Greywater

drained to a sump. 600 L/day expected.

☒ Solid Waste

flown out. 75-100 garbage bags expected

☒ Bulky Items/Scrap Metal

flown out

☒ Waste Oil/Hazardous Wastes

stored in drum. flown out.

☒ Empty Barrels/Fuel Drums

flown out.

☐ Other: _____

33. Please describe incineration system if used on site. What types of wastes will be incinerated?

Some paper may be burned in a burn barrel.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?

Removed to Cambridge Bay.

35. Describe location (relative to water bodies and camp facilities), dimensions and volume, and freeboard for sumps (if applicable).

Not yet known since camp is not in place yet. Expected to be 25-50m from camp and over 100m from lakeshore.

36. Will leachate monitoring be done? What parameters will be sampled and analysed, and at what frequency?

No

OPERATION AND MAINTENANCE

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place? YES. No significant O&M problems are known under summer conditions. Later in season, pumps may need to be thawed before using.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
At end of project, all items brought in will be flown out.

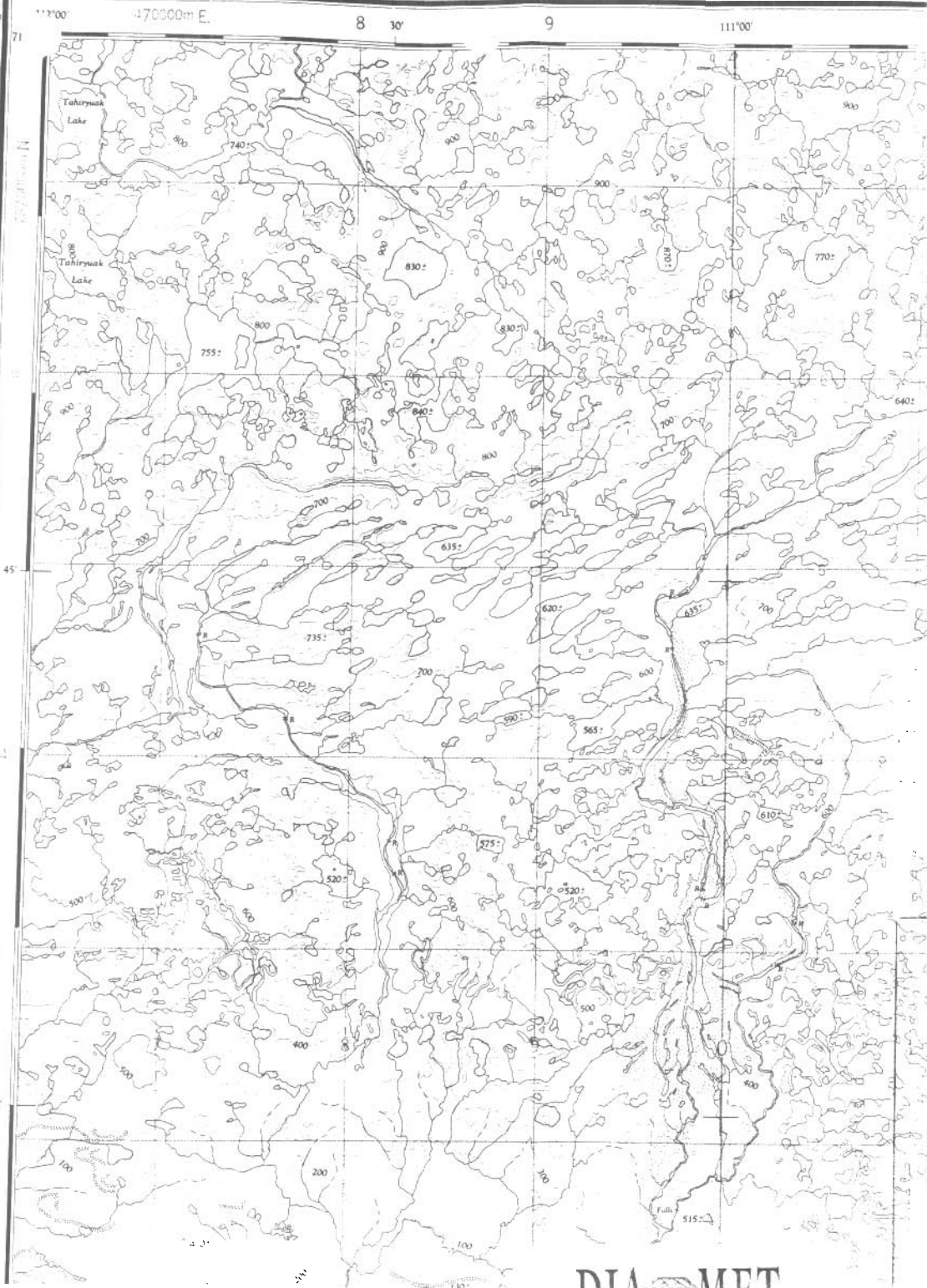
BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.
- NO.
- ☐ Physical Environment (Landscape and Terrain, Air, Water, etc.)
 - ☐ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
 - ☐ Socio-Economic Environment (Archaeology, Land and Resource Use, Demographics, Social and Cultural Patterns, etc.)
 - ☐ Other:

REGULATORY INFORMATION

40. Do you have a copy of
- ☐ Article 13 - Nunavut Land Claims Agreement
 - ☐ NWB- Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
 - ☐ NWB - Interim Rules of Practice and Procedure for Public Hearings
 - ☐ NWTWB- Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
 - ☐ NWTWB- Guidelines for Contingency Planning
 - ☐ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
 - ☐ Fisheries Act - s.35
 - ☐ RWED - Environment Protection- Spill Contingency Regulations
 - ☐ Canadian Drinking Water Quality Guidelines
 - ☐ Public Health Act Camp Sanitation Regulations
 - ☐ Public Health Act Public Water Supply Regulations
 - ☐ Territorial Land Use Act and Regulations

You should consult the above documents, guidelines, and legislation for compliance with existing regulatory requirements.



DIA MET

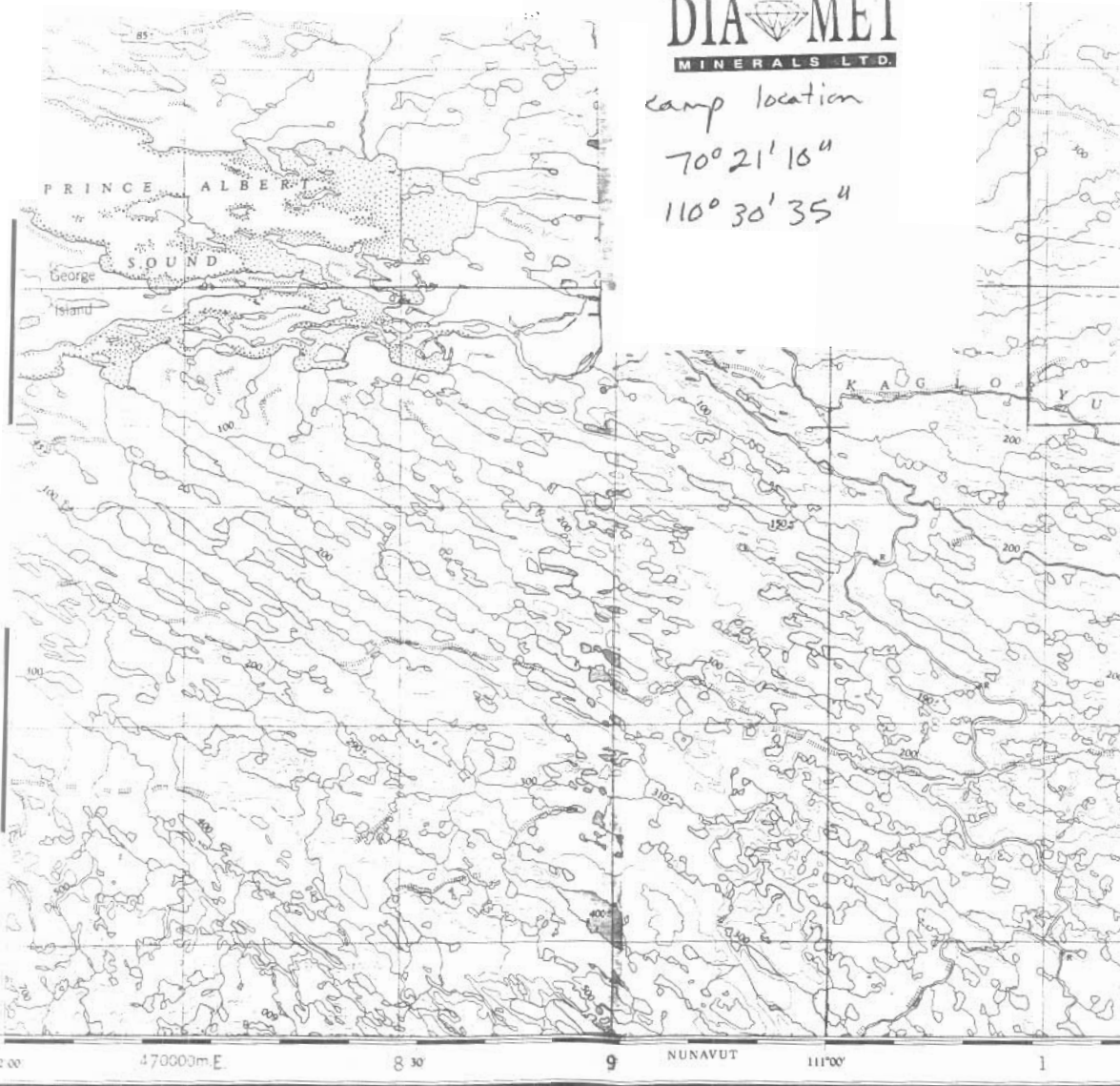
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DIA MET
MINERALS LTD.

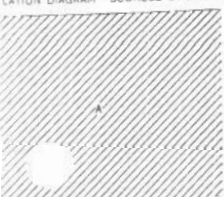
camp location

70° 21' 10"

110° 30' 35"



LATION DIAGRAM - SOURCES UTILISÉES



THE LIMITS OF THE LAND PARCELS WITHIN THE LAND CLAIM SETTLEMENT AREA ARE DEPICTED IN APPROXIMATE LOCATIONS. THE TERRITORIAL LIMITS OF NUNAVUT WILL COME INTO FORCE APRIL 1, 1999.

LES LIMITES DES PARCELLES DE TERRAIN SITUÉES À L'INTERIEUR DE LA ZONE DE REGLEMENT DES REVENDEICATIONS TERRITORIALES SONT APPROXIMATIVES. LES LIMITES DÉFINISSANT LE TERRITOIRE DU NUNAVUT SERONT OFFICIELLEMENT ADOPTÉES LE 1^{ER} AVRIL 1999.

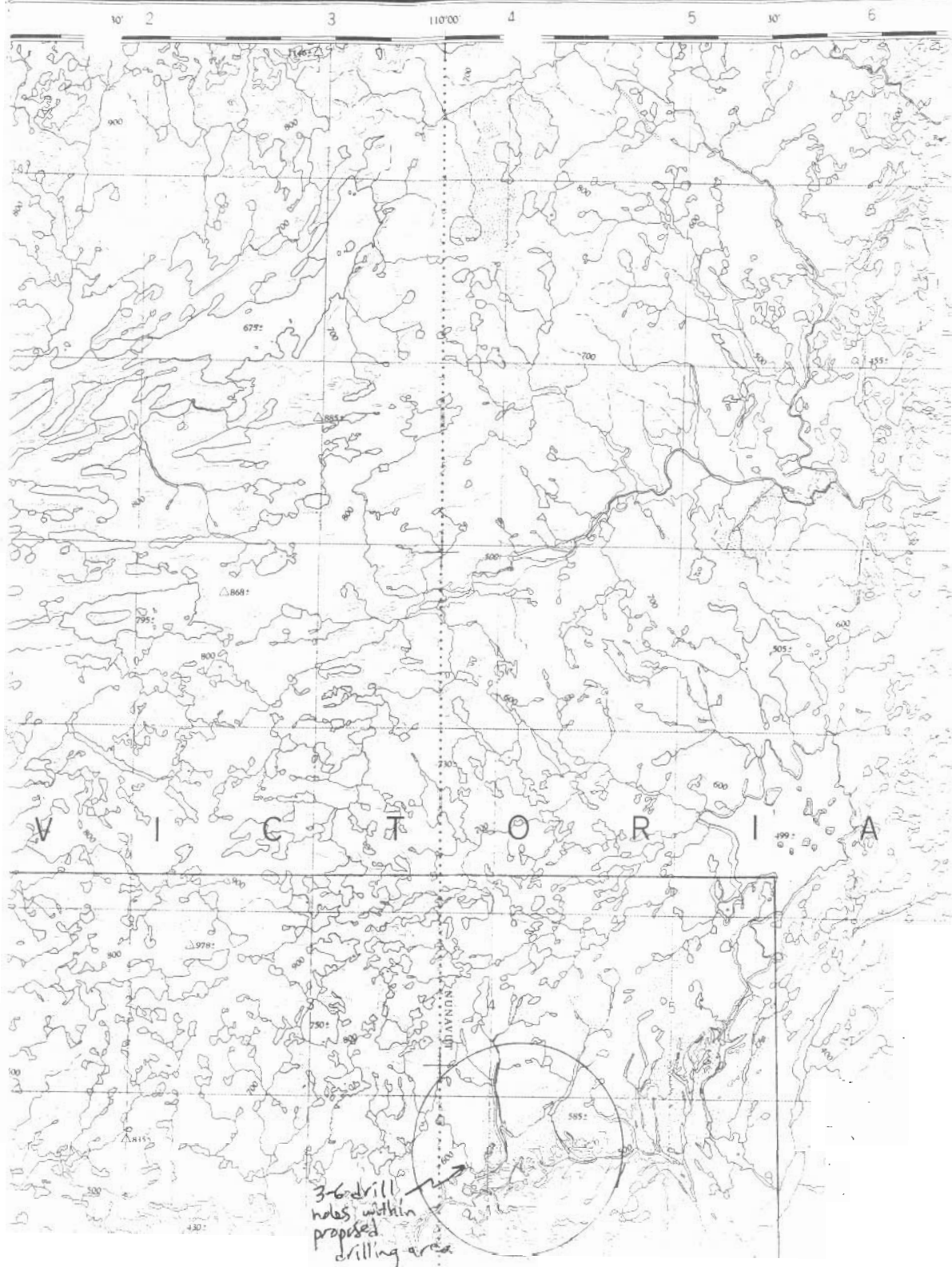
Produced by the ARMY SURVEY ESTABLISHMENT, R.C.E. Information depicted current as of 1959. Printed 1966.

The magnetic compass is useless in this area because of the daily movement of the North Magnetic Pole. 1965 Magnetic declination for this map varies from 49°24' easterly at the centre of the west edge to 43°09' easterly at the centre of the east edge.

INTERIM CORRECTIONS 1993.

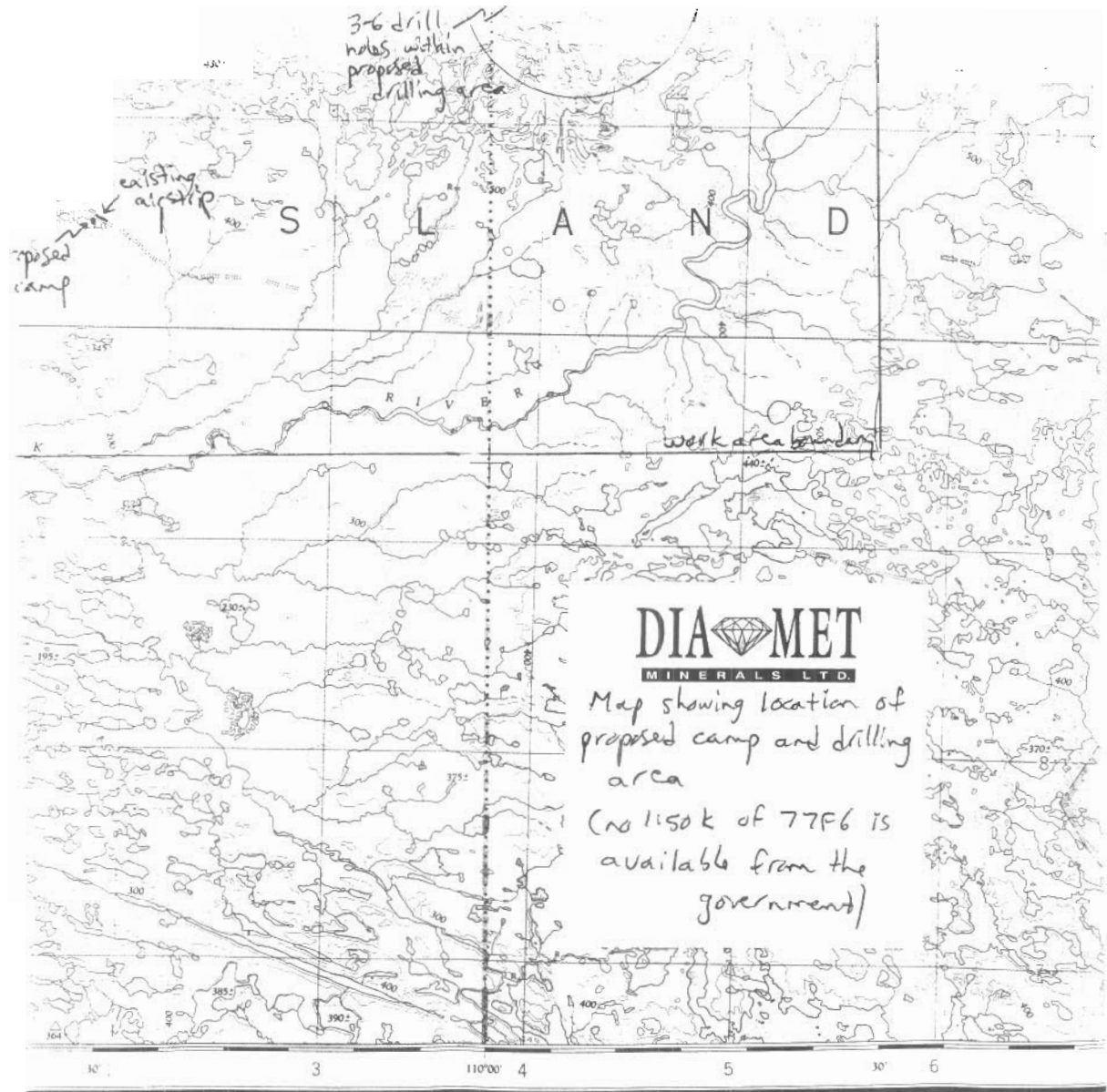
Roads:	Routes:	dry weather
loose surface	de gravier	période sèche
cart track, trail	de terre, sentier	
Spot elevation; precise, approximate	Point coté; précis, approximatif	950, 950
Boundary monument	Borne frontière	
Raised beaches	Plages élevées	
Depression contours	Courbes de cuvette	
Cliff or low relief	Falaise ou relief peu accentué	
Esker	Esker	

Photogrammetrically from 1958 aerial photography.
Photogrammétriques à partir de photographies aériennes de 1958.



3

4



KAGLORYUAK RIVER

DISTRICT OF FRANKLIN
NORTHWEST TERRITORIES

Scale 1:250,000 Échelle



Transverse Mercator Projection
North American Datum 1927
Contour Interval 100 feet
Elevations in feet above Mean Sea Level

Projection transverse de Mercator
Réseau géodésique nord-américain unifié 1927
Équidistance des courbes 100 pieds
Élévations en pieds au-dessus du niveau moyen de la mer

Copies may be obtained from the Map Distribution Office,
Department of Mines and Technical Surveys, Ottawa.

Ces cartes sont en vente au Bureau de distribution des cartes,
ministère des Mines et des Relevés techniques, Ottawa.

Publié
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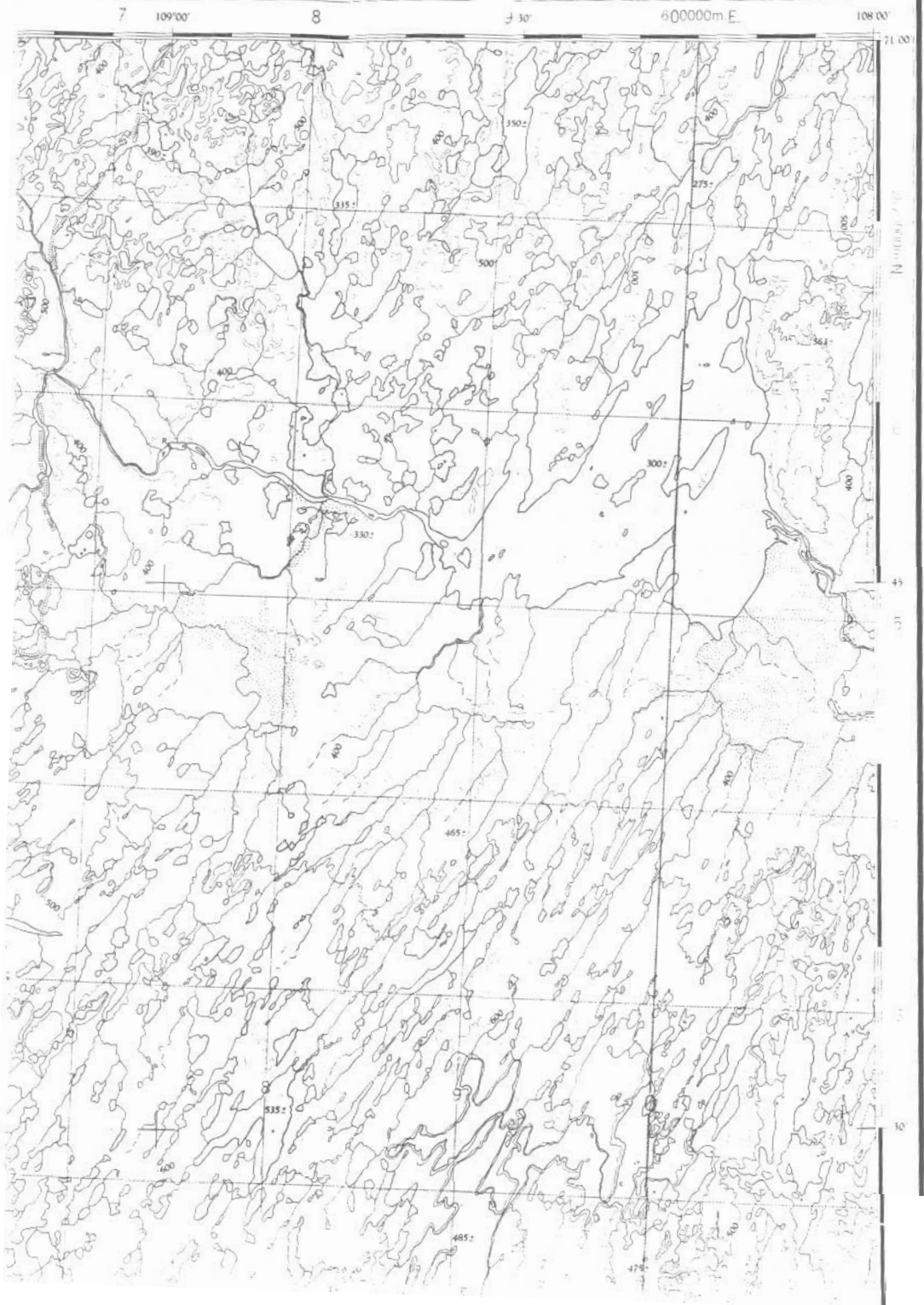
Building.....
Post office.....
Church.....
School.....
Astronomical monument.....
R.C.M.P. Detachment.....
Horizontal control point.....
Lighthouse.....

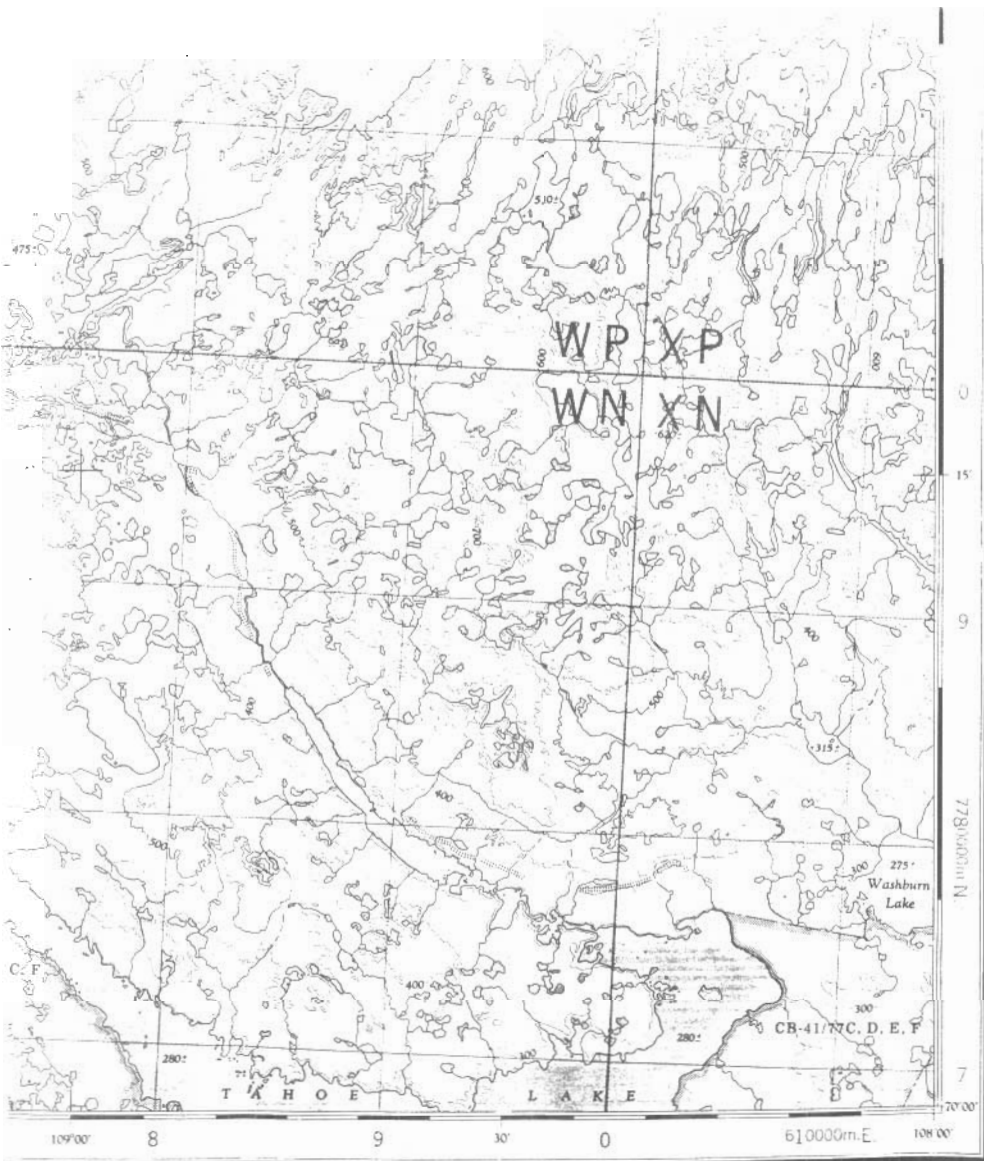
EDITION 2

Refer to
this map as:

77 F
EDITION 2 ASE
SERIES A 502

77F





TOPOGRAPHIQUE DE L'ARMÉE,
 1 jour en 1959. Imprimée en 1966.
 inutile dans cette région à cause du mouvement
 tectonique.
 (1965) varie de 49°24' vers l'est au centre
 jusqu'à 43°09' vers l'est au centre de la

© 1993

GRID ZONE DESIGNATION

12 W

100,000 M. SQUARE IDENTIFICATION

VP	WP	XP
VN	WN	XN
5	6	78

TO GIVE A REFERENCE TO NEAREST 1000 METRES

EXAMPLE

LAKE

SQUARE. Read letters of 100,000 m. square WP

EASTING. Read number on grid line immediately to left of point

Estimate tenths of a square from this line northeast to point

NORTHING. Read number on grid line immediately below point

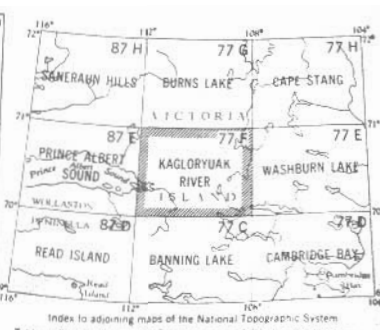
Estimate tenths of a square from this line northward to point

MILITARY GRID REFERENCE (to nearest 1,000 metres)

WP4407

If reporting beyond 18° in any direction prefix Grid Zone Designation as: 12WWP4407

TEN THOUSAND METRE
 UNIVERSAL TRANSVERSE MERCATOR GRID
 ZONE 12



Index to adjoining maps of the National Topographic System
 Tableau d'assemblage du Système National de Référence Cartographique

KAGLORYUAK RIVER
 77F
 EDITION 2

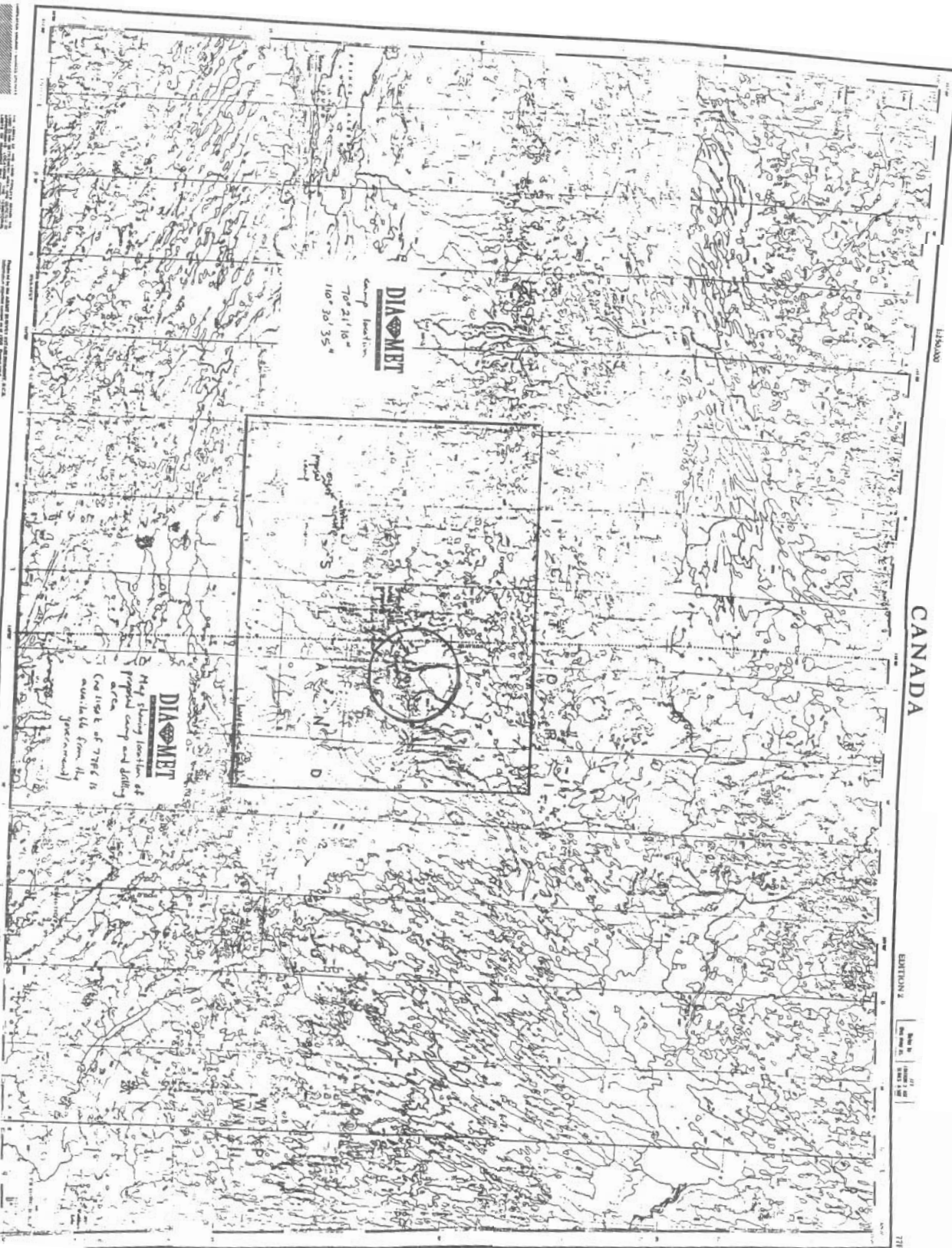
77E

1:50,000

CANADA

SECTION 2

Sheet No. 377
Scale 1:50,000



DIA-MET

Camp location
70° 21' 16"
110° 30' 35"

DIA-MET

May Shanty location of
proposed camp and drilling
area
(see note of 7786 is
available from the
government)

KAGLORYUAK RIVER

Northwest Territories

Scale 1:50,000

Legend

1. Contour lines

2. Rivers

3. Lakes

4. Settlements

5. Roads

6. Railways

7. Airports

8. Power lines

9. Telecommunication lines

10. Other features

Notes

1. This map is a reproduction of the original map.

2. The original map is available from the government.

3. The original map is available from the government.

4. The original map is available from the government.

5. The original map is available from the government.

6. The original map is available from the government.

7. The original map is available from the government.

8. The original map is available from the government.

9. The original map is available from the government.

10. The original map is available from the government.